



Commander, Naval Surface Force, Atlantic

www.cns1.surfor.navy.mil

U.S. NAVY



USS DONALD COOK (DDG 75)

Guided Missile Destroyer

Homeport: Norfolk, Virginia

www.cook.navy.mil



USS Donald Cook (DDG 75) is the 25th ship in the ARLEIGH BURKE Class of Aegis guided missile destroyers. USS Donald Cook's mission is to conduct prompt, sustained combat operations at sea, in support of national policy. She is equipped to operate in a high-density, multi-threat environment as an integral member of a carrier battle group or Surface Action Group (SAG).

In addition to her own self-defense capabilities in Air Warfare (AW), Undersea Warfare (USW), Surface Warfare (SUW), Donald Cook can effectively provide local area protection to the battle group, surface action group, and other ships. Donald Cook is equipped with the world's most sophisticated weapon system. She has the AN/SPY-1D Phased Array Radar, which incorporates significant advances in the detection capabilities of the AEGIS Weapons System, particularly in its resistance to enemy Electronic Counter-Measures (ECM). Using the SPY-1D and her MK 99 Fire Control System, Donald Cook can guide her vertically-launched Standard Missiles to intercept hostile aircraft and missiles at extended ranges. To provide point defense against hostile air targets, Donald Cook is equipped with the Block 1 upgrade to the Phalanx Close-In-Weapons System (CIWS).

Donald Cook is also equipped with the Navy's latest SUW Combat Systems. Land attack cruise missile capability is provided by Tomahawk Missiles, which are launched from her Mark 41 Vertical Launching System (VLS). Her shorter range Harpoon Anti-Ship Cruise Missiles have a range in excess of 65 nautical miles which are fired from stand-alone launchers. The 5"/54 Caliber Gun, in conjunction with the Mark 34 Gun Weapon System, is an anti-ship weapon which can also be used for close-in air contacts or to support forces ashore with Naval Surface-Fire Support (NSFS).

Finally, Donald Cook's AN/SQQ-89 integrated USW Suite is the most advanced anti-submarine warfare system in the world today. The AN/SQR-19 Tactical Towed Array SONAR (TACTAS) provides extremely long-range passive detection of enemy submarines, and the AN/SQS-53C Hull-Mounted SONAR is used to actively and passively detect and locate submarine contacts. Donald Cook also has the capability to land the SH-60B LAMPS Mark III Helicopter, which can link to the ship for support in the anti-submarine operations, as well as conducting over-the-horizon targeting missions. These systems are supplemented by the AN/SLQ-32V(3) Electronic Warfare Suite, which includes passive detection systems, decoy countermeasures and an active jamming capability.

Powered by four quick-response General Electric LM-2500 Gas Turbine Engines coupled to two Controllable-Reversible Pitch (CRP) Propellers, Donald Cook has tremendous maneuverability, and a top speed in excess of 30 knots. Her expert engineers also provide the ship with electricity, fresh water, heating and air conditioning facilities. Donald Cook matches maximum survivability with her potent offensive capability.

In the ARLEIGH BURKE Class, all-steel construction is used. Extensive top-side armor is placed around vital combat systems and machinery spaces. A comprehensive Collective Protection System guards against nuclear, chemical, or biological agents. State-of-the-art propulsion and damage control systems are managed by an all-new data multi-plexing system. Home to a crew of over 330, Donald Cook has most services associated with a small town at sea, including dining, banking, ATM, laundry, post office and shopping facilities, over 10,000 line items of spare parts, and a barber shop. A marvel of modern technology and engineering, Donald Cook is a powerful instrument of peace in the service of her nation, capable of sustaining herself at sea for months at a time. Donald Cook is the premier warship designed to carry out the U.S. Navy's missions well into the 21st century.

SHIP'S SPECIFICATIONS:

GENERAL

Length - 505 ft. 6 in.
Beam (Maximum)- 66 ft. 6in.
Speed: 30+ knots
Draft (Navigational)- 20 ft, 10 in.
Displacement- 8,580 tons
Complement-300+

ENGINEERING

Propulsion: 4 Gas Turbine Engines
Allison 2500 KW Gas Turbine
Engines, 100,000 Shaft
Horsepower, 2 13.5 ft. diameter

SENSORS

AN/SPY-1D 3-D Search/Track Radar
AN/SPS-67(V) Surface Search Radar
AN/SPS-64(V) Surface Search Radar
AN/SQS-53C(V) Hull Mounted Sonar
AN/SQS-19(V) Tactical Towed Array Sonar
AN/SQQ-28(V) LAMPS III Shipboard
Electronics ESM/ECM
AN/SLQ-32(V)3
AN/SLQ-25A NIXIE Torpedo
Countermeasures
MK 36 MOD 6 Decoy Launching System

WEAPONS

1 MK 45 MOD 2 5"/54 caliber Gun Mount
2 MK 41 Vertical Launching Systems
2 Harpoon Anti-ship Missile Quad Canisters
2 MK 15 MOD 12 Close-in-Weapons Systems
2 MK 32 MOD 14 Triple Torpedo Tubes

AIRCRAFT

2 SH-60B LAMPS MK III Helicopters

Keel Laid: July 9, 1996

Christened: May 3, 1997

Commissioned: December 4, 1998